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Adam Hess, Kent E. Seamons

June 2003 SACMAT '03: Proceedings of the eighth ACM symposium on

Access control models and technologies

Publisher: ACM

Full text available: pdf(608.60 KB)

Additional Information: full citation, abstract,
references, index terms

The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources are usually static, and an access control policy ...

Keywords: access control, authentication, credentials, trust negotiation

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2 [Network processing in content inspection applications](#)

Felix J. Welfeld

September 2001 I SSS '01: Proceedings of the 14th international symposium
on Systems synthesis

Publisher: ACM

Full text available: pdf(175.50 KB)

Additional Information: full citation, abstract, cited by,
index terms

This paper will show how NP can be used for complicated tasks including advanced classification of packets. Advanced classification requires the NP to look beyond the layer 3-4 header of the protocol, deep into the session and application layer payload. ...

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document-conversion.com
3 [Personalization of user profiles for content-based music retrieval based on relevance feedback](#)


Keiichiro Hoashi, Kazunori Matsumoto, Naomi Inoue

November 2003 MULTIMEDIA '03: Proceedings of the eleventh ACM
international conference on Multimedia

Publisher: ACM

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Full text available:  pdf(189.04 KB) Additional Information: full citation, abstract, references, cited by, index terms

Numerous efforts on content-based music information retrieval have been presented in recent years. However, the object of such existing research is to retrieve a specific song from a large music database. In this research, we propose a music retrieval ...


Keywords: music information retrieval, relevance feedback, tree-based vector quantization, user preferences

4 Enabling email confidentiality through the use of opportunistic encryption

Simson L. Garfinkel

May 2003 dg.o '03: Proceedings of the 2003 annual national conference on Digital government research

Publisher: Digital Government Research Center

Full text available:  pdf(51.35 KB) Additional Information: full citation, abstract, references

Software for encrypting email messages has been widely available for more than 15 years, but the email-using public has failed to adopt secure messaging. This failure can be explained through a combination of technical, community, and usability factors. ...


5 Evaluating a new approach to strong web cache consistency with snapshots of collected content



Mikhail Mikhailov, Craig E. Wills

May 2003 WWW '03: Proceedings of the 12th international conference on World Wide Web

Publisher: ACM

Full text available:  pdf(115.46 KB) Additional Information: full citation, abstract, references, cited by, index terms

The problem of Web cache consistency continues to be an important one. Current Web caches use heuristic-based policies for determining the freshness of cached objects, often forcing content providers to unnecessarily mark their content as uncacheable ...

Keywords: cache consistency, change characteristics, collected content, object composition, object relationships, server invalidation, web caching


6 Content-based organization and visualization of music archives



Elias Pampalk, Andreas Rauber, Dieter Merkl

December 2002 MULTIMEDIA '02: Proceedings of the tenth ACM international conference on Multimedia

Publisher: ACM

Full text available:  pdf(494.20 KB) Additional Information: full citation, abstract, references, cited by

With *Islands of Music* we present a system which facilitates exploration

of music libraries without requiring manual genre classification. Given pieces of music in raw audio format we estimate their perceived sound similarities based on psychoacoustic ...

Keywords: clustering, content-based music retrieval, feature extraction, genre, rhythm, self-organizing map, user interface

7 [Multimedia content processing through cross-modal association](#)



Dongge Li, Nevenka Dimitrova, Mingkun Li, Ishwar K. Sethi
November 2003 MULTIMEDIA '03: Proceedings of the eleventh ACM international conference on Multimedia

Publisher: ACM

Additional Information: full citation, abstract,

Full text available: [pdf\(594.43 KB\)](#)

references, cited by, index terms

Multimodal information processing has received considerable attention in recent years. The focus of existing research in this area has been predominantly on the use of fusion technology. In this paper, we suggest that cross-modal association can provide ...

Keywords: cross-modal association, cross-modal factor analysis (CFA), cross-modal information retrieval, talking head analysis

8 [Content-based retrieval for music collections](#)



Yuen-Hsien Tseng
August 1999 SIGIR '99: Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM

Additional Information: full citation, references, cited by,

Full text available: [pdf\(99.27 KB\)](#)

index terms

Keywords: approximate string matching, key melody extraction, music indexing, music retrieval, pitch profile encoding, query suggestion

9 [3D zernike descriptors for content based shape retrieval](#)



Marcin Novotni, Reinhard Klein
June 2003 SM '03: Proceedings of the eighth ACM symposium on Solid modeling and applications

Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: [pdf\(1.23 MB\)](#)

Content based 3D shape retrieval for broad domains like the World Wide Web has recently gained considerable attention in Computer Graphics community. One of the main challenges in this context is the mapping of 3D objects into compact canonical representations ...


Keywords: 3D Zernike moments, invariants, shape descriptor, shape retrieval

10 [Modeling users' interests in information filters](#)

Irene Stadnyk, Robert Kass

December 1992 Communications of the ACM. Volume 35 Issue 12


Publisher: ACM

Full text available:  pdf(1.13 MB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)11 [FIR filter synthesis algorithms for minimizing the delay and the number of adders](#)

Hyeon Ju Kang, Hansoo Kim, In Cheol Park

November 2000 ICCAD '00: Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design

Publisher: IEEE Press

Full text available:  pdf(65.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


As the complexity of digital filters is dominated by the number of multiplications, many works have focused on minimizing the complexity of multiplier blocks that compute the constant coefficient multiplications required in filters. Although the complexity ...

12 [Filtering objectionable internet content](#)

Varghese Jacob, Ramayya Krishnan, Young U. Ryu, R. Chandrasekaran, Sungchul Hong

January 1999 I C I S '99: Proceedings of the 20th international conference on Information Systems


Publisher: Association for Information Systems

Full text available:  pdf(133.91 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)13 [Evaluating cost-sensitive Unsolicited Bulk Email categorization](#)

José María Gómez Hidalgo

March 2002 SAC '02: Proceedings of the 2002 ACM symposium on Applied computing

Publisher: ACM

Full text available:  pdf(566.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In the recent years, Unsolicited Bulk Email has become an increasingly important problem, with a big economic impact. In this paper, we discuss cost-sensitive Text Categorization methods for UBE filtering. In concrete, we have evaluated a range of Machine ...

Keywords: cost-sensitive classification, evaluation, text categorization, unsolicited bulk email

14 [Hill climbing algorithms for content-based retrieval of similar configurations](#)



Dimitris Papadias

July 2000 SIGIR '00: Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM

Full text available: pdf(991.68 KB) Additional Information: full citation, abstract, references, index terms

The retrieval of stored images matching an input configuration is an important form of content-based retrieval. Exhaustive processing (i.e., retrieval of the best solutions) of configuration similarity queries is, in general, exponential and fast search ...

Keywords: MMIR (general), content-based indexing&slash;retrieval (general), efficient search over non-textual information, image indexing&slash;retrieval

15 Proxies + path prediction: improving Web service provision in wireless-mobile communications

Stathes Hadjiefthymiades, Lazaros Merakos

August 2003 Mobile Networks and Applications, Volume 8 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(255.64 KB) Additional Information: full citation, abstract, references, index terms

Mobile computing is considered of major importance to the computing industry for the forthcoming years due to the progress in the wireless communications area. A proxy-based architecture for accelerating Web browsing in wireless customer premises networks ...

Keywords: cache relocation, caching proxy, mobile computing, path prediction algorithm

16 A spatial approach to organizing and locating digital libraries and their content



Jason Orendorf, Charles Kacmar

April 1996 DL '96: Proceedings of the first ACM international conference on Digital libraries

Publisher: ACM

Full text available: pdf(962.91 KB) Additional Information: full citation, references, cited by, index terms

Keywords: digital library, geographical, graphical, image, map, spatial

17 Integrating geometrical and linguistic analysis for email signature block parsing



Hao Chen, Jianying Hu, Richard W. Sproat

October 1999 ACM Transactions on Information Systems (TOIS),

Volume 17 Issue 4

Publisher: ACM

Full text available: pdf(192.29 KB) Additional Information: full citation, abstract, references, cited by, index terms

The signature block is a common structured component found in email messages. Accurate identification and analysis of signature blocks is important in many multimedia messaging and information retrieval applications such as email text-to-speech rendering, ...

Keywords: email signature block, finite-state transducer, geometrical analysis, linguistic analysis, text-to-speech rendering

18 Electronic discussion group moderators' experiences with flame messages and implications for the design of a multi-modal adaptive content-sensitive filtering tool

Richard H. C. Seabrook

March 2001 CHI '01: CHI '01 extended abstracts on Human factors in computing systems

Publisher: ACM

Additional Information: full citation, abstract,

Full text available:  pdf(164.97 KB)

references, cited by, index terms

Flame messages pose a persistent and growing problem for discussion groups who rely on the Internet for their primary means of communication. Online communities maintaining public bulletin boards are especially susceptible to undesirable posts which ...

Keywords: content filtering, email, flame, moderators

19 Robust content-based image searches for copyright protection

Sid-Ahmed Berrani, Laurent Amsaleg, Patrick Gros

November 2003 MMDB '03: Proceedings of the 1st ACM international workshop on Multimedia databases

Publisher: ACM

Additional Information: full citation, abstract,

Full text available:  pdf(166.07 KB)

references, cited by, index terms

This paper proposes a novel content-based image retrieval scheme for image copy identification. Its goal is to detect matches between a set of doubtful images and the ones stored in the database of the legal holders of the photographs. If an image ...

Keywords: approximate nearest-neighbor searches, content-based image retrieval, copyright protection, fine grain, recognition


20 Longest prefix matching using bloom filters

Sarang Dharmapurikar, Praveen Krishnamurthy, David E. Taylor

August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Additional Information: full citation, abstract,

Full text available:  pdf(207.32 KB)

references, cited by, index terms

We introduce the first algorithm that we are aware of to employ Bloom




filters for Longest Prefix Matching (LPM). The algorithm performs parallel queries on Bloom filters, an efficient data structure for membership queries, in order to determine address ...

Keywords: IP lookup, forwarding, longest prefix matching

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